DEPARTMENT OF AVIATION

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General Information
The mission of the Aviation Program is to provide each student with the knowledge and skills of a competent pilot and/or industry professional, combined with a liberal education and business concentration that will provide them an initial and long-term competitive advantage as professionals in global organizations and in society. The Department of Aviation is responsible for credit and noncredit aviation education, FAA Part 141 and 61 pilot training, and FAA AT-CTI curriculum and simulation courses. A Bachelor of Science Degree with four aviation concentrations and four aviation minors are offered.

The Department of Aviation's modern training assets include: 13 Piper Warrior III aircraft (two with glass Avidyne flight systems and with Garmin 430 GPA units), three Piper Arrows, one Cessna 152 Aerobat, two Twin Engine Piper Seminole, one Twin Engine Beechcraft Barron, one King Air C-90 B Turbo Prop, two advanced FAA Aircrew Training Devices (AATD's/flight simulators), and Red Bird Simulator. This modern aircraft fleet offers students advanced technology and also provides air transportation through the Faculty and Staff Transport (FAST) Program. Additionally, the AT-CTI program boasts a complete array of all available air traffic control simulations to include a Tower Simulation Cab for tower and ground operations, and an ATC Enroute Radar Simulation Facility Lab.

HISTORY
The University of Oklahoma Department of Aviation was established in 1947 as an independent, Provost-directed department chaired by J.E. Coulter. The department provided flight instruction for students seeking flight certification. In 1993, the degree program was moved from the College of Education to the College of Continuing Education and became the college’s first undergraduate degree program.

Mission
Our program mission is to provide aviation majors with the knowledge and skills of a competent pilot, air traffic controller, and/or industry professional along with broad education and business concentrations that provide long-term competitive professional advantages.

Goal
All graduates of the program in aviation will have developed a depth of understanding of the Aviation industry and been afforded the opportunity to prepare for an aviation-related professional career following graduation.

ACCREDITATION
The University of Oklahoma Aviation Management degree concentration programs are accredited by the Aviation Accreditation Board International (AABI). Accreditation ensures each aviation student at OU earns a degree from a nationally recognized institution with a quality aviation program, and impeccable safety record. It can also have the added benefit of opening more doors to students in the areas of industry scholarship procurement, internships, and eventual employment.

CAREERS
Career choices for students completing the undergraduate program in aviation include, but are not limited to, airport management, business planning analyst, aviation technical writer, contract specialist, corporate or airline management, corporate, military, air ambulance, sight-seeing, airline and flight test pilot, flight instructor, freelance commercial assistant, aircraft sales, leasing and insurance, flight dispatcher, flight schedule coordinator, safety inspector, air traffic controller, planning and development manager, aeronautical charting, aviation law, accident investigator, and air marshal. Additionally, OU Aviation helps students further their career prospects in that it is an approved school to provide training for the FAA Air Traffic-Collegiate Training Initiative and the Restricted Airline Transport Pilot, as well as an Envy Airlines Pipeline Program partner and partnerships with other Regional airlines as an AABI University Program graduate.

Programs & Facilities
Max Westheimer Airport
The Max Westheimer Airport terminal building and the AM&E Building located on North Campus at the University Research Park are the primary office and classroom buildings for the Aviation Department. The buildings contain many classrooms and study areas, with training aids, simulators, and other facilities to enhance the student's learning environment. The airport is a 20-25 minute drive from main campus or via the OU CART (bus service). Aviation students also have access to the department's maintenance hangars, which further enhance the student's ability to learn. Students are encouraged to take an active part in their learning process.

FAA Center of Excellence
In 2016, the University of Oklahoma was awarded a ten-year designation as co-lead for the FAA's newest Center of Excellence, focused on Technical Training and Human Performance (COE TTHP). One of twelve FAA COE's, this endeavor has been named the Center of Excellence: Solutions for Operational Aviation Research (COE-SOAR). It is a consortium of leading aviation research institutions dedicated to helping the FAA revolutionize technical training practices and take human performance to new heights. COE-SOAR serves as the front line of training innovation, working with the FAA to develop solutions which will lead to stronger personnel and safer, more efficient air transportation throughout the nation. Partnering with 25 academic member institutions and affiliates, and with more than 40 industry partners, the Center is responsible for conducting research and development on technical training for air traffic controllers, aviation safety inspectors, engineers, pilots and technicians. The COE examines human factors issues such as changes in learner expectations and best practices for innovation technologies in training a new generation of learners.

AIR TRAFFIC–COLLEGE TRAINING INITIATIVE (AT-CTI)
The University of Oklahoma has a long history of partnership with the Federal Aviation Administration (FAA) and was selected as an AT-CTI school in Fall 2007, making OU one of few approved programs in the southwest region of the United States. This program has been added as a proactive approach to help develop the much needed additions to the FAA workforce. The AT-CTI programs are the primary source of hiring for the FAA and likely a more prevalent source for professional controller candidates worldwide. Graduates from these programs may apply to the FAA Air Traffic Control Academy in Oklahoma City. However, the AT-CTI
coursework must be completed in conjunction with a Non-Engineering Aviation Degree from an approved FAA AT-CTI school. In order to be considered for an ATCS position with FAA, you must not have reached your 31st birthday for Tower and En Route Center facility employment. For more specific details visit the Federal Aviation Administration’s website or contact OU Aviation.

**SOONER FLIGHT ACADEMY**

The Sooner Flight Academy provides aviation education programs and resources for children and teachers. The academy uses exciting aviation activities to promote science, technology, engineering, and math. Educational summer aviation camps are held in Norman. In addition, during the school year, Sooner Flight Academy offers a variety of educational programs such as field trips to the airport, “school’s out” day camps, Sooner Kids Science Club, and Ticket to Tomorrow programs held at schools across Oklahoma. For more information, visit flightcamp.ou.edu.

**INTERNSHIPS**

Aviation related internship experiences are available for qualifying students. Interested students should contact the Aviation Advising Office at (405) 325-7231, or visit the Aviation Internship Opportunities website for more information.

**SCHOLARSHIPS**

The Aviation Department awards a number of scholarships each semester to deserving majors who have been enrolled in the program. Individual scholarship application procedures and deadlines may be found on Aviation Scholarships.

**HONOR SOCIETIES AND PROFESSIONAL ORGANIZATIONS**

Six unique societies and professional organizations are available for students in aviation:

- Sooner Air Traffic Control Association (SATCA)—for students with an interest in supporting the ATC programs;
- Sooner Aviation Club — for students interested in aviation;
- Sooner Chapter of American Association of Airport Executives (AAAE) — for students interested in the business side of aviation including airport management;
- Women In Aviation International (WAI)—for students dedicated to the encouragement and advancement of women in all aviation career fields and interests;
- Alpha Eta Rho, Beta Chi Chapter — an international fraternity for aviation students;
- National Intercollegiate Flight Association (NIFA) Flight Team — comprised of aviation students who compete regionally on a collegiate level in various aviation-related events, varying in complexity.

**Undergraduate Study**

**Bachelor of Science Degree**

The undergraduate degree in Aviation is designed to offer students a choice in their aviation career. The degree offers four areas of concentration:

- Air Traffic Management.
- Aviation Management
- Non-Flying Aviation Management
- Professional Pilot

Upon completion of the program, the student will have a basic familiarity with the facts, skills, techniques, and attitudes which are relevant to the aviation industry, along with the basic educational and aeronautical experience to compete in today’s aviation marketplace.

**Aviation Minors**

Aviation minors are open to non-Aviation majors at the University of Oklahoma; Air Traffic Control is the only Aviation minor open to Aviation majors. Students pursuing any Aviation minor must earn at least a minimum grade of “C” in Aviation courses taken to meet minor requirements.

- Air Traffic Control
- Aviation Management
- Single-Engine Commercial Pilot
- Multi-Engine Commercial Pilot

**ADMISSION**

To be admitted to the Aviation program, a student must first be admitted to the University of Oklahoma. Inquiries concerning admission to the University should be addressed to the Office of Admissions & Recruitment, University of Oklahoma, 1000 Asp Avenue, Room 127, Norman, OK, 73019-4076. Specific requirements for admission may be found at the Admissions & Recruitment website.

**RESIDENCY REQUIREMENT**

Candidates for the BS degree must complete their last 30 hours as a resident student in the College of Continuing Education. However, if a candidate has completed the last 51 hours as a resident student at the University of Oklahoma, nine of the last 60 hours may be taken at another university or by correspondence. Students are encouraged to consult their advisors prior to enrollment.

**PASS/NO PASS ENROLLMENT**

Pass/No Pass Enrollment may only be used to fulfill Elective Requirements.

**INCOMPLETE (i)**

I is a neutral mark and means incomplete. It is not an alternative to a grade of F; and no student may be failing a course at the time an I grade is awarded. To receive an I grade, the student should have satisfactorily completed a substantial portion of the required course work for the semester. The instructor will indicate to the student and to the Office of Academic Records what must be done to complete the course and set a time limit appropriate to the circumstances. However, the time limit allowed may not exceed one calendar year. If by the end of the year no change in grade has been submitted, the grade of I will be changed to the pre-determined permanent grade. If the professor does not turn in an Incomplete Contract, the student’s grade will be changed to an F after the allotted one-year time period. After a grade of I has been changed, a student may re-enroll in the course if appropriate or required.

All instructional faculty are required to use the university-wide Incomplete Contract Form (PDF) when assigning a grade of Incomplete. This document protects both faculty and students by documenting circumstances that led to the assignment of an Incomplete grade.
USE OF GRADUATE LEVEL COURSES
Graduate-level courses may NOT count toward the undergraduate degree.

CREDIT HOUR LOAD
Generally considered full time, an undergraduate student must be enrolled in at least 12 hours in a fall or spring semester and six hours in a summer session. Please be advised that the VA and various scholarship donors may have specific hour requirements that may vary. Enrollments of 20 hours or more in a fall or spring semester and 10 hours or more in a summer session, must be approved by the Director of Academic Advising Services Office, Terminal Bldg., Room 209. Students requesting such an exception must have demonstrated readiness to perform on an overload basis either through superior performance on a college aptitude test, or on the basis of superior academic achievement in previous college coursework.

CONCURRENT DEGREES IN TWO COLLEGES
- Both degrees must be completed and certified in the same semester.
- A graduation application must be filed for each degree. Two diplomas will be awarded.
- At least 30 additional hours must be completed beyond the degree that requires the least number of hours.

TEN-YEAR LIMITATION RULES
Students must complete the degree requirements within a maximum of 10 calendar years from the date of that enrollment. If the work for a degree covers a period longer than 10 years, the student must update to the most current degree program requirements.

Credit in a student’s major that is more than 10 years old may not be applied toward a bachelor’s degree unless it is validated by the Aviation Department Director.

ACADEMIC PROBATION & STOP-OUT POLICY
To be considered in good standing with the Aviation Department, a student should maintain OU retention and combined retention grade point averages of at least 2.25 and comply with all Departmental and FAA policies. Additionally, Aviation Majors are required to enroll in and successfully complete a MATH course every semester until the Math 1743 requirement is fulfilled. This is essential due to the fact that Math is a prerequisite for several of the “Basic Business” courses and all of the “Upper-Division Business” coursework required for the degree. Hence, failure to comply with the math rule will delay one’s degree completion.

If a student’s OU retention or combined retention grade point average falls below 2.25 or the Math policy is not adhered to, the student will be placed on one semester of academic probation. Failure of a student to satisfy the terms of this probationary semester will lead to the student being stopped-out of the Aviation Program. Likewise, a student who does not comply with all FAA and Departmental policies will also be stopped-out of the program.

Students who are stopped out will have their enrollment cancelled and must change their major from Aviation. After being stopped out, students are not eligible to return to the Aviation Department or enroll in Aviation courses until their OU retention and combined retention grade point averages have reached the minimum 2.25 and/or a MATH course has been successfully completed. While being stopped out, students cannot have earned a D or F in any math, science, and/or business course.

Upon being stopped-out, students’ records will be transferred to the Center for Student Advancement. All stopped-out students must contact the Center for Student Advancement to discuss options for changing their major and re-enrolling at the University of Oklahoma.

GRADUATION
Students must apply for the degree that they are pursuing. Deadlines are February 15 for spring graduates, June 1 for summer graduates, and September 15 for fall graduates. Dates are subject to change at the discretion of Academic Records. Application is made online via one.ou.edu. All Aviation majors are required to make an appointment for a graduation check the semester before they intend to graduate. During the graduation check, applications and senior exit interviews will be completed.

Students may graduate with Academic Distinction if they have an overall and OU retention and combined retention grade average (including the last semester’s grades) of at least 3.50. Graduation with Academic Special Distinction requires at least a 3.75 overall and OU combined grade point average. No student who has been subject to disciplinary action will be granted a degree with Distinction or Special Distinction.

Aviation Credit Flight Fees
Below are all the flight courses offered at OU that carry a flight or lab fee which are in addition to the tuition costs for the courses. It is important to note that not all the courses listed are required for each degree option, but some are optional if the student desires the additional training. The following classes are required for the Aviation Management—Flying degree option: AVIA 1222, AVIA 2231, AVIA 2341, AVIA 3572, and AVIA 4552. The following classes are required for the Professional Pilot degree option: AVIA 1222, AVIA 2231, AVIA 2341, AVIA 3572, AVIA 4552, AVIA 3581, and AVIA 4313.

*Primary Flying AVIA 1222: $7,613 (39 hrs, Warrior III) (29.0 Dual, 10.0 Solo, 1.0 Sim)
*Advanced Flying AVIA 2231: $6,412 (40 hrs, Warrior III) (18.0 Dual, 22.0 Solo)
*Secondary Flying AVIA 2341: $6,045 (40 hrs, Warrior III) (16.0 Dual, 24.0 Solo)
*Instrument Flying AVIA 3572: $7,243 (39.2 hrs, Warrior III) (25.2 Dual, 14.0 Sim)
*Commercial Flying AVIA 4552: $6,571 (40 hrs, Arrow) (21.0 Dual, 19.0 Solo)
*Multi-Engine Flying AVIA 3581: $4,861 (13.5 hrs, Seminole) (13.5 Dual)
*Turbine Transition AVIA 4313: $7,455 (5 hrs, King Air) (5.0 Dual)

Optional Courses
*Flight Instructor AVIA 4602: $4,696 (25 hrs, Arrow) (25.0 Dual)
*Advanced Flight Maneuvers AVIA 3111: $1,199 (5 hrs., Cessna) (5.0 Dual)

*Instrument Instructor AVIA 4613: $3,255 (15 hrs., Warrior III) (15.0 Dual)

*Multi-Engine Instructor AVIA 4622: $9,689 (25 hrs, Seminole) (25.0 Dual)

**ATC Course Fees**

IFR Traffic Procedures AVIA 3313: $369

En Route Radar Lab AVIA 4013: $875

ATC Tower Simulation AVIA 4004: $1,700

Tracon Radar Lab AVIA 4023: $875

**Other Courses**

Crew Resource Management AVIA 4423: $500

**Prices for courses shown above are for the FAA hours required in a course syllabus. Actual flight hours and costs will most likely vary. For example, most Private Pilot students on average require 5 to 10 hours of overflight.** Students may voluntarily pay for additional flight training hours if needed to satisfactorily complete course tasks as discussed with Flight Instructor.

*Overflight: If student requires overflight hours, it is billed at the per flight hour cost (varies by aircraft, see table below). Additionally, for overflight, there is a $34 per hour charge for instructor pre- and post-flight preparation.*

Warrior Dual $166 
Cessna Dual $148 
Seminole Dual $311 
Baron Dual $477 
Ground $34 
Warrior Solo $132 
Arrow Dual $189 
Seneca Dual $311 
King Air Dual $1,091 
Simulator $119

**ALL PRICES EFFECTIVE AUGUST 1, 2019 AND ARE SUBJECT TO CHANGE EACH ACADEMIC YEAR. PLEASE CONTACT THE AVIATION DEPT. TO VERIFY COSTS AT (405) 325-7231.**

**Courses**

AVIA 1003 Introduction to Computer Concepts and Applications 3 Credit Hours

Prerequisite: permission of instructor. Students learn to navigate in Windows, Microsoft Office: Word, Excel, Powerpoint, Access and Outlook. (F, Sp, Su)

AVIA 1013 Introduction to Air Traffic Control 3 Credit Hours

The purpose of this course is to learn about the air traffic control system from both the pilot and controller’s perspectives. This course is the first of eight ATC courses required for the Air Traffic Management degree path or ATC minor and a prerequisite for basic air traffic control regulations. (F, Sp)

AVIA 1111 Aviation Orientation 1 Credit Hour

Prerequisite: must be a declared aviation major. Required orientation course for all declared Aviation Majors during their first semester. Orients students to the department, curriculum, resources, and provides an overview of the various aviation professions. Guest lecturers will include departmental instructors covering all aspects of the industry, as well as the advising staff. (F)

AVIA 1113 Introduction to Aviation 3 Credit Hours

Prerequisite: must be a declared aviation major. Required orientation course for all declared Aviation Majors during their first semester. Orients students to the department, curriculum, resources, and provides an overview of the various aviation professions. Guest lecturers will include departmental instructors covering all aspects of the industry, as well as the advising staff. (F)

AVIA 1213 Basic Air Traffic Control Regulations 3 Credit Hours

Prerequisite: 1013. This course is a progressive continuation of introduction to air traffic control and a prerequisite for general air traffic control procedures. This course is more narrowly focused on study and interpretation of the FAA orders and regulations that govern the air traffic control system and the national airspace system. (Sp, Su)

AVIA 1222 Primary Flying 2 Credit Hours

Prerequisite: 1113 or permission of department. Includes in-flight instruction with effort directed toward obtaining FAA certification as a private pilot. Third class medical must be obtained prior to flying. (F, Sp, Su)

AVIA 1313 Introduction to Unmanned Aerial Systems 3 Credit Hours

Prerequisite: permission of the department. Introduces students to Unmanned Aerial Systems (UAS). Includes the history of UAS and survey current UAS platforms, terminology, challenges to airspace integration and operational theory. (F, Sp)

AVIA 2013 General Air Traffic Control Procedures 3 Credit Hours

Prerequisite: 1213. This course will present the study of "general control" procedures used in the terminal and en route control options as well as FAA flight service processes and procedures. This course will serve as a prerequisite for airport traffic control procedures. (F, Sp)

AVIA 2231 Advanced Flying 1 Credit Hour

Prerequisite: 1222 or private pilot certificate. (F, Sp, Su)

AVIA 2341 Secondary Flying 1 Credit Hour

Prerequisite: 2231. Consists of cross-country experience under the direct supervision of an instructor pilot. Part of the FAA Part 141 commercial certification course. (F, Sp, Su)

AVIA 2513 The History of Aviation 3 Credit Hours

Charters the history of aviation through an in-depth study of powered flight and focus on the development of civil, commercial, and military aviation. The course will cover significant events and people throughout aviation history from the first powered flight through present day developments and a brief look into the future. Also examines the impact of aviation on recreation, transportation, warfare, and exploration. (F, Sp)

AVIA 2613 Aviation Safety 3 Credit Hours

Prerequisite: Sophomore standing and departmental permission. This course will examine all aspects of accidents/incidents involving airline and general aviation flights. It examines those areas from the perspective of pilots, crew members, air traffic controllers and National Transportation Safety Board (NTSB) findings. Each accident/incident is dissected with the goal of determining what went wrong and lessons that can be learned. (F, Sp)

AVIA 2970 Special Topics/Seminar 1-3 Credit Hours

1 to 3 hours. May be repeated; Maximum credit nine hours. Special topics course for content not currently offered in regularly scheduled courses. May include library and/or laboratory research, and field projects. (Irreg.)
AVIA 3013  Career Development for Aviation Professionals  3 Credit Hours
Prerequisite: completed 36 or more college credit hours. This course will provide an overview of the career planning process for aviation students. Students will master the techniques of self-assessment, resume and letter writing, interviewing, researching companies, proper writing techniques, ethics and etiquette, and networking. This course is intended to help students prepare for internship interviews or entering the aviation industry as a professional. (F, Sp)

AVIA 3103  Flight Deck Environmental Issues  3 Credit Hours
Prerequisite: departmental permission. Human-machine interface issues in today's modern flight deck are the focus of the course. Leading to that end, the student will explore the cognitive and psychomotor domains of learning, review studies of aircrew interface problems, learn coping mechanisms used by today's best aviation trainers to overcome design-induced problems in cockpit advanced technology. (F, Sp)

AVIA 3111  Advanced Flight Maneuvers  1 Credit Hour
Prerequisite: 2222 or FAA private pilot certificate. Increase the student's knowledge and understanding of advanced flight maneuvers. Accelerated stalls, spins, inverted flight, and recovery from unusual altitudes. Advanced aerodynamics will be discussed and demonstrated. (F, Sp, Su)

AVIA 3113  Commercial Aviation  3 Credit Hours
Prerequisite: 3133 or instrument rating. Course provides the student the knowledge required to obtain a commercial pilot certificate. (F, Sp, Su)

AVIA 3133  Fundamentals of Instrument Flight  3 Credit Hours
Prerequisite: 2231 and private pilot license. Federal aviation regulations as pertain to instrument flight rules (IFR), weather and forecast products, interpretation of en route low altitude charts and terminal instrument approach procedures, instrument flight procedures and techniques. (F, Sp, Su)

AVIA 3213  Airport Traffic Procedures  3 Credit Hours
Prerequisite: 2013. The primary focus of this course is to study visual air traffic control procedures, specifically, to learn the principles of operation and the separation methods required in the air traffic control tower environment. This course will serve as a prerequisite for IFR Air Traffic Control Procedures. (F)

AVIA 3313  IFR Air Traffic Procedures  3 Credit Hours
Prerequisite: 3213. Focus on the requirements and procedures used in the IFR air traffic control environment. The students will study all of the separation standards and rules used in radar and non-radar environments in the approach control and air route traffic control facilities. This course will serve as a prerequisite for Air Traffic Simulation. (F)

AVIA 3333  Survey of Aviation Law  3 Credit Hours
Prerequisite: 1113 or junior standing. Survey of legal issues in aviation. The student will review legislation, regulatory agencies, and case studies dealing with legal issues in the medium of airspace above the ground-predominantly over the United States. The student will be able to identify and comprehend the historical events and technical terms that describe national and international legal precedents that have shaped aviation law. (F, Sp)

AVIA 3440  Mentored Research Experience  3 Credit Hours
0 to 3 hours. Prerequisites: ENGL 1113 or equivalent, and permission of instructor. May be repeated; maximum credit 12 hours. For the inquisitive student to apply the scholarly processes of the discipline to a research or creative project under the mentorship of a faculty member. Student and instructor should complete an Undergraduate Research & Creative Projects (URCP) Mentoring Agreement and file it with the URCP office. Not for honors credit. (F, Sp, Su)

AVIA 3513  Airport Operations Management  3 Credit Hours
Prerequisite: 1113 and junior standing. Provides the student with an in-depth analysis of airport management, operations and planning functions necessary to operate, develop, and maintain safe and efficient airport facilities as is the practice in the United States. Also introduces air traffic control (ATC) concepts. (F, Sp)

AVIA 3572  Instrument Flying  2 Credit Hours
Prerequisite: 3133 and private pilot certificate. Individual flight simulator instruction in the technique of flying solely by reference to instruments. Ground instruction in radio navigation, meteorology, instrument approach procedures, air traffic control procedures and federal aviation regulations. (F, Sp, Su)

AVIA 3581  Multi-Engine Flying  1 Credit Hour
Prerequisite: 4552 or commercial pilot certificate. A study of the design, construction and flight characteristics of multiengine aircraft. Inflight instruction in pilotage and operation of multiengine airplanes. Designed to qualify the student for certification as a multiengine pilot. (F, Sp, Su)

AVIA 3913  Aerospace Contract Administration  3 Credit Hours
Prerequisite: junior standing. Survey and study of specialized procedures used in the management and administration of aerospace (aviation) contracts, particularly associated with commercial and defense systems acquisitions. Students will use case study analysis, involving aerospace development and acquisition procedures, to enhance the learning experience and prepare them for future employment in the aerospace industry. (F)

AVIA 3923  Aerospace Operational Research  3 Credit Hours
Prerequisite: junior standing. Students will be introduced to the fundamental methods and techniques employed by the aviation/aerospace industry when researching and analyzing operational issues. Case studies will concentrate on procedures of data acquisition and analysis where research leading to problem solutions is commonplace. Students will be able to use specialized research methods to collect data, analyze it, and then draw logical conclusions. Knowledge, skills, and abilities learned in this course will prepare students for Senior Capstone (F).

AVIA 3960  Honors Reading  1 to 3 Credit Hours
1 to 3 hours. Prerequisite: Admission to Honors Program. May be repeated; maximum credit six hours. Consists of topics designated by the instructor in keeping with the student’s major program. The topics will cover materials not usually presented in the regular courses. (F, Sp, Su)

AVIA 3970  Honors Seminar  1 to 3 Credit Hours
1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Subjects covered vary. Deals with concepts not usually treated in regular courses. (Irreg.)

AVIA 3980  Honors Research  1 to 3 Credit Hours
1 to 3 hours. Prerequisite: Admission to Honors Program. May be repeated; maximum credit six hours. Will provide an opportunity for the gifted Honors candidate to work at a special project in the student's field. (F, Sp, Su)

AVIA 3990  Independent Study  1 to 3 Credit Hours
1 to 3 hours. Prerequisite: permission of instructor and junior standing. May be repeated once with change of content. Independent study may be arranged to study a subject not available through regular course offerings. (F, Sp, Su)
AVIA 4004 Air Traffic Control Tower Simulation 4 Credit Hours
Prerequisite: AVIA 3213 with minimum grade of C. Provides students an opportunity to apply knowledge learned in previous air traffic control courses, specifically AVIA 3213, and expand the knowledge base of terminal ATC procedures. The application and expansion of knowledge will occur in lectures and through working in a high fidelity, simulated ATC tower environment. Laboratory (F, Sp)

AVIA 4013 En-Route Radar Lab 3 Credit Hours
Prerequisite: AVIA 3313 with minimum grade of C and departmental permission. Lab to prepare student for on-the-job training in an FAA En-Route Air Traffic Control facility. Course will consist of dynamic simulation exercises in an ATC computer lab as well as classroom briefings. Students will run scenarios as the controller and as a pseudo pilot. Course objectives are based on federal guidelines by the Federal Aviation Administration. (Sp)

AVIA 4015 Air Traffic Simulation 5 Credit Hours
Prerequisite: AVIA 3313. Lab to prepare student for on-the-job training in an FAA air traffic control facility. Course will consist of dynamic simulation exercises in an ATC computer lab as well as classroom briefings. Students will run scenarios as the controller and as a pseudo pilot. (Sp)

AVIA 4023 Traffic Radar Lab 3 Credit Hours
Prerequisite: AVIA 3213 with minimum grade of C and departmental permission. Lab to prepare students for on-the-job training in an FAA Terminal Radar Air Traffic Control facility. Course will consist of dynamic simulation exercises in an ATC computer lab as well as classroom briefings. Students will run scenarios as the controller and as a pseudo pilot. Objectives are based on federal guidelines by the Federal Aviation Administration. (Sp)

AVIA 4113 CFI Seminar 3 Credit Hours
Prerequisite: 3133, 3113. Increase student knowledge of theories of learning, flight instructor authority, and responsibility and classroom and flight techniques. Emphasis on principles of instruction, student motivation and maneuver error analysis. (F, Sp, Su)

AVIA 4313 Turbine Transition 3 Credit Hours
Prerequisite: 3581 and 4552. Introduce the student to the procedures of flying a turbine aircraft and the concepts of crew resource management. Emphasis is placed on the basic terminology and procedures and emergency operations. (F, Sp, Su)

AVIA 4423 Crew Resource Management 3 Credit Hours
Prerequisite: 1113 and junior standing. To teach the student the principles and procedures of a two or more person cockpit. Includes: briefings, call-outs, and emergency procedures. (F, Sp)

AVIA 4552 Commercial Flying 2 Credit Hours
Prerequisite: 3113. The final stage of the FAA Part 141 commercial pilot certification course. Designed to polish pilot skills in commercial aircraft maneuvers. (F, Sp, Su)

AVIA 4602 Flight Instructor-Airplane 2 Credit Hours
Prerequisite: commercial pilot certificate and instrument rating. Flight instruction in preparation for FAA flight instructor certificate. (F, Sp, Su)

AVIA 4613 Instrument Flight Instructor 3 Credit Hours
Prerequisite: commercial pilot certificate and flight instructor-airplane certificate. Consists of lecture and flight instruction in the specialized teaching techniques and procedures required of an instrument flight instructor. At the end of the course, the student will meet the requirements for certification by the FAA as an instrument flight instructor. (F, Sp, Su)

AVIA 4622 Multiengine Flight Instructor 2 Credit Hours
Prerequisite: commercial multiengine pilot certificate and flight instructor -- airplane certificate. Instruction in the specialized teaching techniques and procedures required of a multiengine flight instructor. At the end of the course, the student will meet the requirements to take the flight test for certification by the FAA as a multiengine flight instructor. (F, Sp, Su)

AVIA 4663 Survey of Aerospace Ethical Issues 3 Credit Hours
A survey of past and present ethical issues influencing the development of ethical behavior among U.S. aerospace companies and commercial and corporate aviation. Individual development of defense mechanisms to ensure ethical behavior in competitive environments. (Irreg.)

AVIA 4713 Senior Capstone 3 Credit Hours
Prerequisite: senior standing, permission of department, and all major upper-division courses or concurrent enrollment. This project course builds on the accumulated knowledge from all courses to date. Lectures will cover problem identification, analysis, generation of alternatives, cost/benefit studies, interviews and presentations. Student teams will analyze and make recommendations on an actual problem for an aviation related organization, such as the FAA. (F, Sp) [V]

AVIA 4803 Aviation Mental Health: Psychological Implications for Air Transportation 3 Credit Hours
Prerequisite: junior standing. Students will learn about mental health issues relevant to passengers, cabin crew, and flight deck crew— that have far-reaching psychological implications for all those who travel by means of air transportation— through the experiences of flight attendants, pilots, clinicians, researchers, trainers, and professors. (Sp, Su)

AVIA 4960 Directed Readings 1-4 Credit Hours
1 to 4 hours. Prerequisite: good standing in University; permission of instructor and dean. May be repeated; maximum credit four hours. Designed for upper-division students who need opportunity to study a specific problem in greater depth than formal course content permits. (Irreg.)

AVIA 4970 Special Topics/Seminar 1-3 Credit Hours
1 to 3 hours. Prerequisite: Senior standing or permission of instructor. May be repeated; maximum credit nine hours. Special topics or seminar course for content not currently offered in regularly scheduled courses. May include library and/or laboratory research and field projects. (Irreg.)

AVIA 4983 Airline Management 3 Credit Hours
Prerequisite: junior or graduate standing. Study of the managerial aspects of the airline industry to include economic and organizational characteristics, marketing, operational scheduling, fleet planning, and labor relations. Students participate in management simulation as senior executives of a regional domestic carrier. (F, Sp)

AVIA 4990 Special Studies in Aviation 1-4 Credit Hours
1 to 4 hours. Prerequisite: departmental permission. Will encompass various aviation-related topics including many specialty flight programs; such as, aerobatic instruction, multiengine training, pilot refresher training, etc. (F, Sp, Su)
AVIA 5940  Graduate Research or Applied Project in Aviation  1-4 Credit Hours
Prerequisite: graduate course in electronic access to research resources and theory or equivalent. May be repeated; maximum credit four hours. Designed to provide the application of theory to practice in the field of aviation management. Students are encouraged to begin developing a research interest or service project idea early in their course of study. The project is approved and supervised by a faculty adviser. Working from the perspective of consultant, the student thoroughly investigates the issues and proposes specific actions, using analysis, planning and management tools developed during their course of study. Continuous guidance and feedback are provided by the faculty adviser and sponsor during the project. The completed project will require a comprehensive written report. (F, Sp, Su)

AVIA 5960  Directed Readings  1-3 Credit Hours
1 to 3 hours. Prerequisite: graduate standing and permission of department. May be repeated; maximum credit twelve hours. Directed readings and/or literature reviews under the direction of a faculty member. (F, Sp, Su)

AVIA 5970  Special Topics/Seminar  1-3 Credit Hours
1 to 3 hours. Prerequisite: Graduate standing or permission of instructor. May be repeated; maximum credit nine hours. Special topics or seminar course for content not currently offered in regularly scheduled courses. May include library and/or laboratory research and field projects. (Irreg.)

AVIA 5990  Independent Study  1-3 Credit Hours
1 to 3 hours. Prerequisite: Graduate standing and permission of instructor. May be repeated; maximum credit nine hours. Contracted independent study for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Irreg.)

Faculty

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First/Middle Name</th>
<th>Middle init.</th>
<th>OU Service start</th>
<th>Title(s), date(s) appointed</th>
<th>Degrees Earned, Schools, Dates Completed</th>
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</thead>
<tbody>
<tr>
<td>Dionne</td>
<td>Robert A</td>
<td>2013</td>
<td></td>
<td>ASSISTANT PROFESSOR OF AVIATION, 2013</td>
<td>PhD, Oklahoma State Univ, 2016; EdD, Oklahoma State Univ, 2010; M Aviation Mgt, Embry-Riddle Aeronautical Univ, 1985; BS, SUNY at Binghamton, 1979; AS, SUNY at Broome</td>
</tr>
<tr>
<td>Gullberg</td>
<td>Steven R</td>
<td>2016</td>
<td></td>
<td>ASSISTANT PROFESSOR OF AVIATION, 2016; ASSISTANT PROFESSOR OF LIBERAL STUDIES, 2016</td>
<td>PhD, James Cook Univ, 2010; MLS, Univ of Oklahoma, 2002; BS, SUNY, 1985</td>
</tr>
<tr>
<td>Hubbard</td>
<td>Todd P</td>
<td>2012</td>
<td></td>
<td>PROFESSOR OF AVIATION, 2018; CLARENCE E PAGE PROFESSOR OF AVIATION/ AEROSPACE STUDIES, 2012</td>
<td>EdD, Oklahoma State Univ, 2000; MS, Embry-Riddle Aeronautical Univ, 1987; BA, Oklahoma State Univ, 1974</td>
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